

FIXED MOUNT BARCODE SCANNERS



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Ordering information

Туре	Part no.
Туре	Fait IIV.
CLV631-0000F0	1050778

Other models and accessories -> www.sick.com/CLV63x



Detailed technical data

Features

Version	Mid Range
Connection type	Cable
Reading field	Front
Sensor type	Line scanner
Optical focus	Fixed focus
Light source	Light spot, laser, Visible, Red, 655 nm
Light spot	Circular
Laser class	2, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 56" from May 8, 2019 (EN 60825-1:2014+A11:2021, IEC 60825-1:2014)
Aperture angle	≤ 50°
Reading distance	90 mm 450 mm ¹⁾
Scanning frequency	400 Hz 1,200 Hz
Code resolution	0.25 mm 0.5 mm
Heating	✓
Cold storage applications	1

 $^{\mbox{\ 1})}$ For details see reading field diagram.

Mechanics/electronics

Connection type	1 x 15-pin D-Sub HD male connector (0.9 m) 1 x cable, open-ended, 3-wire (2 m)
Supply voltage	≤ 24 V DC, ± 10 %
Power consumption	40 W
Housing material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Glass
Enclosure rating	IP65 (EN 60529)

¹⁾ At 25 °C.

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Protection class	III (EN 61140)
Weight	520 g, with connecting cable
Dimensions (L x W x H)	61 mm x 96 mm x 50 mm
MTBF	100,000 h
MTTF	40,000 h (Laser diode) ¹⁾

¹⁾ At 25 °C.

Performance

Readable code structures	1D codes
Bar code types	All current code types, Code 39, Code 128, Code 93, Codabar, GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode, GS1 DataBar, Telepen, MSI/Plessey
Code printing process	Label (printed codes)
Print ratio	2:1 3:1
No. of codes per scan	1 20 (Standard decoder) 1 6 (SMART decoder)
No. of codes per reading interval	1 50 (auto-discriminating)
No. of characters per reading interval	5,000 500 (for multiplexer function in CAN operation)
No. of multiple readings	199

Interfaces

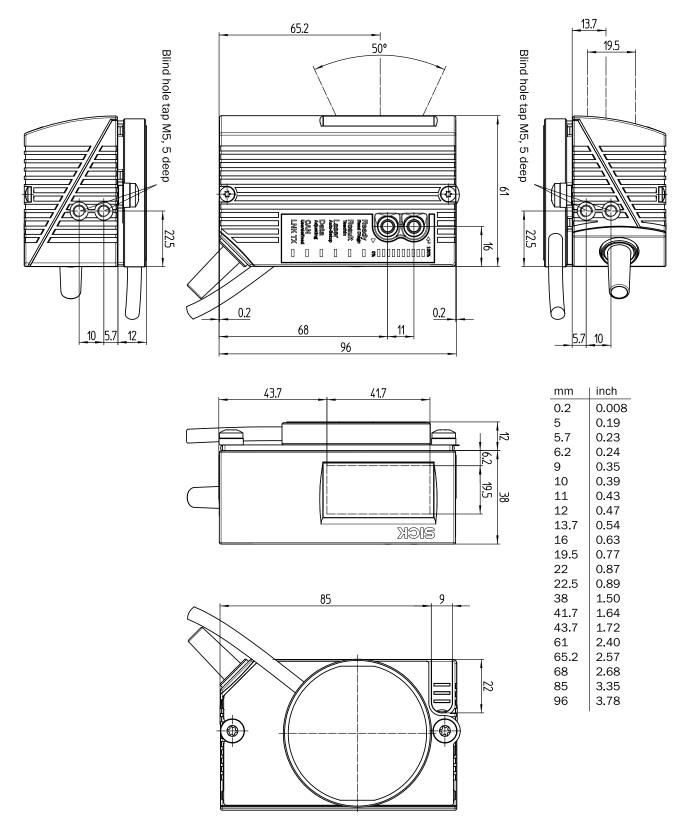
PROFINET		1
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
	Function	PROFINET Single Port, PROFINET Dual Port
EtherCAT		1
	Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial		✓, RS-232, RS-422, RS-485
	Function	Data interface (read result output), Service interface
	Data transmission rate	2,400 Baud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN		1
	Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
	Data transmission rate	20 kbit/s 1 Mbit/s
CANopen		1
	Data transmission rate	20 kbit/s 1 Mbit/s
PROFIBUS DP		1
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Digital inputs		4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/ CDM420)
Digital outputs		4 ("Result 1", "Result 2", 2 outputs via optional parameter storage CMC600 in CDB620/ CDM420)
Reading pulse		Digital inputs, non-powered, serial interface, auto pulse, CAN
Optical indicators		$6~\mbox{LEDs}$ (Ready, Result, laser, Data, CAN, LNK TX, Bar graph for displaying the reading rate percentage (10 $\mbox{LEDs}))$
Acoustic indicators	s	Beeper/buzzer (can be switched off, can be allocated as a result indication function)
Control elements		2 buttons (choose and start/stop functions)
Configuration soft	ware	SOPAS ET

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Memory card	MicroSD memory card (flash card), optional
Ambient data	
Electromagnetic compatibility (EMC)	EN 61000-6-3 (2001-10) / EN 61000-6-2:2005
Vibration resistance	EN 60068-2-6 (1995)
Shock resistance	EN 60068-2-27 (1993)
Ambient operating temperature	-35 °C +35 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on barcode
Bar code print contrast (PCS)	≥ 60 %
General notes	
Note on use	For Ethernet connection please use an Ethernet version of CLV6xx
Classifications	
ECLASS 5.0	27280102
ECLASS 5.1.4	27280102
ECLASS 6.0	27280102
ECLASS 6.2	27280102
ECLASS 7.0	27280102
ECLASS 8.0	27280102
ECLASS 8.1	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	43211701

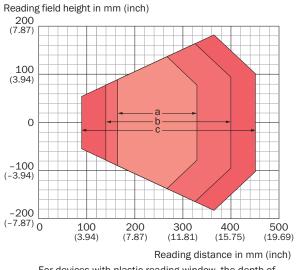
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Dimensional drawing (Dimensions in mm (inch))



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Reading field diagram



For devices with plastic reading window, the depth of field is reduced by approx. 10 %.

Resolution



Recommended accessories

Other models and accessories -> www.sick.com/CLV63x

	Brief description	Туре	Part no.
Cloning modu	les		
	External parameter memory for integration in CDB620/CDB650/CDM42x	CMC600-101	1042259
Electronic mo	dules		
	Additional board for connecting a bar code scanner with heater in combination with CDM-420	Additional board	2055071
Modules			
	 Accessory group: 4DproConnectivity Product family: Connection Device Basic Sub product family: CDB620 Supported products: CLV61x - CLV65xLector62xRFH6xxRFU62x Brief description: Small connection module for one sensor, 4 cable glands, base for CMC600 	CDB620-001	1042256
	 Accessory group: 4DproConnectivity Product family: Connection Device Modular Sub product family: CDM420 Fieldbus interface: PROFIBUS DPEthernetDeviceNet[™] Supported products: Lector62xCLV61x - CLV65xMobile handheld scannersRFH6xxR- FU62xRFU63x Brief description: Modular connection module for one sensor 	CDM420-0001	1025362

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	Brief description	Туре	Part no.
Storage media	a		
	microSD memory card with 1 GB for industrial use	microSD memory card	4051366
Mounting brackets and plates			
	Hanger-shaped mounting bracket, thermally isolated for use with heating devices, mounting hardware included	Mounting bracket	2050705

Recommended services

Additional services -> www.sick.com/CLV63x

	Туре	Part no.
Performance check		
 Product area: Fixed mount barcode scanners Range of services: Inspection of defined functions, e.g., reading performance Duration: Additional work will be invoiced separately 	Performance check CLV	1682028
Commissioning		
 Product area: Fixed mount barcode scanners Range of services: Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as tests, Setup of previously defined functions of reading configuration, code configuration, data processing and network, interfaces or inputs and outputs Duration: Additional work will be invoiced separately 	Commissioning CLV61x CLV64x	1681925
Extended warranty		
 Product area: Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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Online data sheet

